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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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STEPHEN C. GLAZIER KIRKPATRICK & LOCKHART LLP 1800 MASSACHUSETTS AVENUE, NW WASHINGTON, DC 20036			EXAMINER MANCHO, RONNIE M	
			ART UNIT	PAPER NUMBER
			3663	

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/626,810

Applicant(s)

LOWREY ET AL.

Examiner

Ronnie Mancho

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 14 March 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4, 6-15, 17-40, 42-52, 54-77 and 79-90 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-15, 17-40, 42-52, 54-77, 79-90 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-4, 6-15, 17-40, 42-52, 54-77, 79-90 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. In claims 1-4, 6-15, 17-40, 42-52, 54-77, 79-90, the applicant claims “wirelessly receiving a schema”. The applicant went forth to disclose the meaning of a schema to encompass a plurality of meanings confusing the scope of the claims. As an example, the applicant cites that a schema component:

--- identifies diagnostic data to be collected;

--- features an address that describes a location of a diagnostic datum in a computer memory;

--- includes a field that regulates time and frequency for querying an onboard computer;

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--- includes a field that regulates time and frequency for collecting data from an onboard computer;

--- identifies a subset of the set of operational characteristics that are monitored by an on-board computer, etc, etc.

It is clearly seen that the term “schema” is indefinite as applied to the claim language. The applicant’s drawings do not disclose what the applicant is referring to as a schema. It is therefore not clear what all is meant and encompassed by the term “schema” as applied to the claims.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4, 6-15, 17-40, 42-52, 54-77, 79-90 are rejected under 35 U.S.C. 102(b) as being anticipated by Spaur et al (5732074).

Regarding claim 1 Spaur (as best understood) disclose a system (figs. 1-4) for interfacing with an on-board diagnostic computer in a vehicle, wherein the on-

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board diagnostic computer (122, 124, col. 10, lines 37+) is configured to monitor a set of operational characteristics of the vehicle, the system comprising:

a wireless appliance (30, 80, 82, 84, fig. 2) which during use communicates with the vehicle's on-board diagnostic computer (122, 124, col. 10, lines 37+), said wireless appliance comprising (i) a wireless communication component and (ii) a data-collection component (figs. 1-4),

said wireless communication component configured to wirelessly receive a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifying a subset of the set of operational characteristics that are monitored by the on-board diagnostic computer (122, 124, col. 10, lines 37+),

said data-collection component configured to process the received schema and to collect from the vehicle's on-board diagnostic computer data for the subset of operational characteristics identified in the received schema (col. 9, lines 33-67),

said wireless communication component (30, 80, 82, 84, fig. 2) being further configured to wirelessly transmit (col. 2, lines 53+; col. 3, lines 49+) said collected data,

wherein the schema identifies an address of an operational characteristic (col. 2, lines 53+; col. 3, lines 49+) for which data is to be collected from the vehicle's on-board diagnostic computer (122, 124, fig. 2),

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wherein the schema includes a field that describes a time or frequency at which the data collection component queries (updated data, col. 9, lines 31-36) the vehicle's on-board diagnostic computer,

wherein the operational characteristics include at least one of the following: diagnostic trouble codes, vehicle speed, fuel level, fuel pressure, miles per gallon, engine RPM, mileage, oil pressure, oil temperature, tire pressure, tire temperature, engine coolant temperature, intake-manifold pressure, engine-performance tuning parameters, alarm status, accelerometer status, cruise-control, status, fuel-injector performance, spark-plug timing, and a status of an anti-lock braking system (col. 9, lines 10+),

wherein the wireless appliance (30, 80, 82, 84, fig. 2) is configured to send an outgoing data packet that indicates a vehicle's location (col. 9, line 5; col. 3, lines 49+),

wherein the data-collection component is configured to repeatedly collect said data from the vehicle's on-board diagnostic computer (122, 124, fig. 2) at times determined by a first schedule specified in the schema, and

wherein the wireless communication component is configured to repeatedly wirelessly transmit (col. 2, lines 53+; col. 3, lines 1-67) the collected data at times determined by a second schedule specified in the schema.

Regarding claim 2 Spaur (as best understood) disclose a system for interfacing with an on-board diagnostic computer (122, 124, fig. 2) in a vehicle, wherein the on-board diagnostic computer is configured to monitor a set of operational characteristics of the vehicle, the system comprising:

a wireless appliance (30, 80, 82, 84, fig. 2) which during use communicates with the vehicle's on-board diagnostic computer (122, 124, col. 10, lines 37+), said wireless appliance comprising (i) a wireless communication component and (ii) a data-collection component (figs. 1-4),

said wireless communication component configured to wirelessly receive a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifying a subset of the set of operational characteristics that are monitored by the on-board diagnostic computer,

said data-collection component configured to process the received schema and to collect from the vehicle's on-board diagnostic computer data for the subset of operational characteristics identified in the received schema (col. 9, lines 33-67), and

said wireless communication component being further configured to wirelessly transmit (col. 2, lines 53+; col. 3, lines 1-67) said collected data,

wherein the schema comprises a field that describes a time or frequency at which the data-collection component queries the vehicle's on-board diagnostic computer.

Regarding claim 3 Spaur disclose the system of claim 2, wherein the schema identifies an address of an operational characteristic for which data is to be collected from the vehicle's on-board diagnostic computer.

Regarding claim 4 Spaur disclose the system of claim 2, wherein the schema comprises an address that describes a location of a diagnostic datum in a computer memory in the vehicle (cols. 2&3).

Regarding claim 6 Spaur disclose the system of claim 2, wherein the schema comprises a field that describes a time or frequency at which the data-transmission component transmit data.

Regarding claim 7 Spaur disclose the system of claim 2, wherein the schema is an ASCII or binary data file.

Regarding claim 8 Spaur disclose the system of claim 2, wherein the operational characteristics include at least one of the following: diagnostic trouble codes, vehicle speed, fuel level, fuel pressure, miles per gallon, engine RPM, mileage, oil pressure, oil temperature, tire pressure, tire temperature, engine coolant temperature, intake-manifold pressure, engine-performance tuning



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parameters, alarm status, accelerometer status, cruise-control status, fuel-injector performance, spark-plug timing, and a status of an anti-lock braking system.

Regarding claim 9 Spaur disclose the system of claim 2, wherein the wireless appliance is configured to send an outgoing data packet that indicates a vehicle's location.

Regarding claim 10 Spaur disclose the system of claim 2, wherein the vehicle is selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 11 Spaur disclose the system of claim 2, wherein the data-collection component is configured to repeatedly collect said data from the vehicle's on-board diagnostic computer at times determined by a first schedule.

Regarding claim 12 Spaur disclose the system of claim 11, wherein the first schedule is specified in the schema.

Regarding claim 13 Spaur disclose the system of claim 2, wherein the wireless communication component is configured to repeatedly wirelessly transmit the collected data at times determined by a first schedule.

Regarding claim 14 Spaur disclose the system of claim 13, wherein the first schedule is specified in the schema.

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Regarding claim 15 Spaur disclose a system for monitoring a set of vehicles, comprising:

a host computer 60 configured to host a web site (col. 11, lines 58 to col. 12, lines 1-67) that receives operational characteristics transmitted wirelessly from the set of vehicles (col. 13, lines 19-23; fleet of vehicles, col. 14, line 1),

wherein the host computer is configured to wirelessly transmit a schema identifying a subset of a set of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) to be monitored by an on-board diagnostic computer (122, 124, fig. 2) located in each of the set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying each vehicle's on-board diagnostic computer for the subset of operational characteristics identified in the schema.

said web site programmed to display on a first web interface queried operational characteristics of a single vehicle selected from among said set of vehicles,

said web site programmed to also display on a second web interface operational characteristics of multiple vehicles among said set of vehicles,

wherein said multiple vehicles are associated with a single entity (col. 13, lines 19-23; fleet of vehicles, col. 14, line 1).

Regarding claim 17 Spaur disclose the system of claim 15, wherein the web site includes a schema selector to select the schema to be transmitted.

Regarding claim 18 Spaur disclose the system of claim 15, wherein the first web interface comprises a first web page that displays a vehicle diagnostic datum.

Regarding claim 19 Spaur disclose the system of claim 18, wherein the first web page comprises data fields describing: (i) a name of a diagnostic datum; (ii) units corresponding to the diagnostic datum; and (iii) a numerical value corresponding to the diagnostic datum.

Regarding claim 20 Spaur disclose the system of claim 19, wherein the first web page further comprises.

Regarding claim 21 Spaur disclose the system of claim 18, wherein the first web page includes a graphical representation of a set of diagnostic data.

Regarding claim 22 Spaur disclose the system of claim 15, wherein the web site further comprises a database component.

Regarding claim 23 Spaur disclose the system of claim 15, wherein the web site further comprises a login web page programmed to accept user name and password inputs of a user.

Regarding claim 24 Spaur disclose the system of claim 23, wherein the web site is configured to determine whether the user is associated with the first or second web interface.

Regarding claim 25 Spaur disclose the system of claim 15, wherein the multiple vehicles are each associated with a single user.

Regarding claim 26 Spaur disclose the system of claim 15, wherein the web site is configured to be displayed on a hand-held device.

Regarding claim 27 Spaur disclose the system of claim 26, wherein the hand-held device comprises a cellular telephone, computer, or personal digital assistant (PDA).

Regarding claim 28 Spaur disclose the system of claim 15, wherein the host computer is further configured to send an electronic communication including at least a portion of the operational characteristics of the single vehicle or multiple vehicles.

Regarding claim 29 Spaur disclose the system of claim 15, wherein the host computer is further configured to analyze a location of the single vehicle and display the location on at least one map.

Regarding claim 30 Spaur disclose the system of claim 15, wherein the set of vehicles includes at least one vehicle selected from a group comprising an

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automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 31 Spaur disclose the system of claim 15, wherein the set of vehicles includes a fleet of vehicles:

Regarding claim 32 Spaur disclose a system for monitoring a set of vehicles (col. 13, lines 19-23; fleet of vehicles, col. 14, line 1), comprising:

a host computer 60 (fig. 1-4) configured to host a web site (col. 11, lines 58 to col. 12, lines 1-67) that receives operational characteristics transmitted wirelessly from the set of vehicles,

said web site (col. 11, lines 58 to col. 12, lines 1-67) programmed to display on a first web (col. 11, lines 58-67) interface operational characteristics of a single vehicle selected from among said set of vehicles,

said web site (col. 11, lines 58 to col. 12, lines 1-67) programmed to also display on a second web interface operational characteristics of multiple vehicles (col. 12, lines 2-17) among said set of vehicles,

wherein said multiple vehicles (col. 13, lines 19-23; fleet of vehicles, col. 14, line 1) are associated with a single entity,

wherein the host computer 60 is configured to wirelessly transmit a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67)

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identifying a subset of a set of operational characteristics to be monitored by an on-board diagnostic computer of a target vehicle,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics identified in the schema,

wherein the web site includes a schema selector (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) to select the schema to be transmitted.

wherein the first web interface (col. 11, lines 58-67; col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) comprises a first web page that displays a vehicle diagnostic datum,

wherein the first web page comprises data fields describing: (i) a name of a diagnostic datum (engine operation, col. 12, lines 65-67; col. 9, lines 10-12), (ii) units (mileage, col. 9, lines 10-12) corresponding to the diagnostic datum, and (iii) a numerical value (col. 12, lines 26-30; mileage, col. 9, lines 10-12) corresponding to the diagnostic datum,

wherein the first page (col. 11, lines 58-67; col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) further comprises multiple sets of diagnostic data (col. 9) associated with the single vehicle, and

wherein the host computer 60 is further configured to send an electronic communication (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) including at least a portion of the operational characteristics of the single vehicle or multiple vehicles.

Regarding claim 33 Spaur disclose a system for monitoring a set of vehicles, comprising:

a host computer 60 configured to wirelessly transmit a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67),

wherein the schema identities a subset of a set of operational characteristics that are monitorable by an on-board diagnostic computer (122, 124, col. 10, lines 37+) of a target vehicle among a set of vehicles (col. 13, lines 19-23; fleet of vehicles, col. 14, line 1),

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics identified in the schema, and

wherein the host computer 60 is further configured to wirelessly receive collected vehicle data (col. 2, lines 53 to col. 3) of the target vehicle, the collected data including the subset of monitorable operational characteristics identified in the transmitted schema.

Regarding claim 34 Spaur disclose the system of claim 33, wherein the schema is associated with a predetermined group of vehicles.

Regarding claim 35 Spaur disclose the system of claim 34, wherein the predetermined group of vehicles have at least one attribute in common.

Regarding claim 36 Spaur disclose the system of claim 33, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 37 Spaur disclose a method of monitoring a set of operational characteristics of a vehicle, comprising:

(a) wirelessly receiving, by a wireless appliance (30, 80, 82, 84, fig. 2) in a vehicle, a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifying a subset of a set of operational characteristics that are monitored by an on-board diagnostic computer (122, 124, col. 10, lines 37+) of the vehicle;

(b) processing the received schema (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67);



(c) collecting (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) from the vehicle's on-board diagnostic computer data (122, 124, col. 10) for the subset of operational characteristics identified in the received schema;

(d) wirelessly transmitting the collected data (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67); and

wirelessly transmitting data (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) indicative of the vehicle's location (col. 3, lines 48; col. 9, lines 5),

wherein the schema (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifies an address of an operational characteristic for which data is to be collected from the vehicle's on-board diagnostic computer,

wherein the schema (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) comprises an address that describes a location of a diagnostic datum in a computer memory in the vehicle,

wherein the schema comprises a field that describes a time or frequency (updated data, col. 9, lines 31-36) at which the data collecting occurs, and

wherein the operational characteristics include at least one of the following: diagnostic trouble codes, vehicle speed, fuel level, fuel pressure, miles per gallon, engine RPM, mileage, oil pressure, oil temperature, tire pressure, tire temperature,

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engine coolant temperature, intake- manifold pressure, engine-performance tuning parameters, alarm status, accelerometer status, cruise-control status, fuel-injector performance, spark-plug timing, and a status of an anti-lock braking system (col. 3, lines 46-67; col. 9).

Regarding claim 38 Spaur disclose a method of monitoring a set of operational characteristics of a vehicle, comprising:

wirelessly receiving, by a wireless appliance in a vehicle, a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifying a subset of a set of operational characteristics that are monitored by an on-board diagnostic computer (122, 124, col. 10) of the vehicle;

processing the received schema (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67);

(c) collecting from the vehicle's on-board diagnostic computer data for the subset of operational characteristics identified in the received schema (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67); and

(d) wirelessly transmitting the collected data (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67),

wherein the schema comprises a field that describes a time or frequency at which the data collecting occurs.

Regarding claim 39 Spaur disclose the method of claim 38, wherein the schema identifies an address of an operational characteristic for which data is to be collected from the vehicle's on-board diagnostic computer.

Regarding claim 40 Spaur disclose method of claim 38, wherein the schema comprises an address that describes a location of a diagnostic datum in a computer memory in the vehicle.

Regarding claim 42 Spaur disclose method of claim 38, wherein the schema comprises a field that describes a time or frequency at which the data transmitting occurs.

Regarding claim 43 Spaur disclose method of claim 38, wherein the schema is an ASCII or binary data file (see TCP/IP, abstract; col. 3).

Regarding claim 44 Spaur disclose method of claim 38, wherein the operational characteristics include at least one of the following: diagnostic trouble codes, vehicle speed, fuel level, fuel pressure, miles per gallon, engine RPM, mileage, oil pressure, oil temperature, tire pressure, tire temperature, engine coolant temperature, intake-manifold pressure, engine-performance tuning parameters, alarm status, accelerometer status, cruise-control status, fuel-injector performance, spark-plug timing, and a status of an anti-lock braking system (col. 9).

Regarding claim 45 Spaur disclose method of claim 38, further comprising wirelessly transmitting data indicative of the vehicle's location.

Regarding claim 46 Spaur disclose method of claim 38, wherein the vehicle is selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 47 Spaur disclose method of claim 38, wherein collecting data includes repeatedly collecting data from the vehicle's on-board diagnostic computer at times determined by a first schedule.

Regarding claim 48 Spaur disclose method of claim 47, wherein the first schedule is specified in the schema.

Regarding claim 49 Spaur disclose method of claim 38, wherein transmitting the collected data includes repeatedly transmitting the collected data at times determined by a first schedule.

Regarding claim 50 Spaur disclose method of claim 49, wherein the first schedule is specified in the schema.

Regarding claim 51 Spaur disclose a method of monitoring a set of vehicles, comprising:

(a) wirelessly receiving (col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67), by a host computer (60, 68, 76, fig. 2), operational characteristics of a set of vehicles (col. 12, lines 2-18);

(b) displaying, on a first web interface of a web site, operational characteristics of a single vehicle selected from among said set of vehicles;

(c) displaying, on a second web interface of the web site, operational characteristics of multiple vehicles among said set of vehicles; and

(d) wirelessly transmitting a schema identifying a subset of a set of operational characteristics to be monitored by an on-board diagnostic computer of a target vehicle,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics identified in the schema,

wherein said multiple vehicles are associated with a single entity,

wherein the web site includes a schema selector to select the schema to be transmitted, wherein the first web interface comprises a first web page that displays a vehicle diagnostic datum,

wherein the first web page comprises data fields describing: (i) a name of a diagnostic datum, (ii) units corresponding to the diagnostic datum, and (iii) a numerical value corresponding to the diagnostic datum,

wherein the first web page further comprises multiple sets of diagnostic data associated with the single vehicle, wherein the web site further comprises a login web page programmed to accept user name and password inputs of a user, and

wherein the web site is configured to determine whether the user is associated with the first or second web interface.

Regarding claim 52 Spaur (col. 1-12) disclose a method of monitoring a set of vehicles, comprising:

(a) wirelessly transmitting a schema identifying a subset of a set of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) to be monitored by an on-board diagnostic computer (122, 124, fig. 2) located in each of a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema,

(b) wirelessly receiving, by a host computer, operational characteristics of a set of vehicles,

(c) displaying, on a first web interface of a web site, operational characteristics of a single vehicle selected from among said set of vehicles; and

(d) displaying, on a second web interface of the web site, operational characteristics of multiple vehicles among said set of vehicles,

wherein said multiple vehicles are associated with a single entity; and

Regarding claim 54 Spaur disclose the method of claim 52, wherein the web site includes a schema selector to select the schema to be transmitted.

Regarding claim 55 Spaur disclose the method of claim 52, wherein the first web interface comprises a first web page that displays a vehicle diagnostic datum.

Regarding claim 56 Spaur disclose the method of claim 55, wherein the first web page comprises data fields describing: (i) a name of a diagnostic datum; (ii) units corresponding to the diagnostic datum, and (iii) a numerical value corresponding to the diagnostic datum.

Regarding claim 57 Spaur disclose the method of claim 56, wherein the first web page further comprises multiple sets of diagnostic data associated with the single vehicle.

Regarding claim 58 Spaur disclose the method of claim 55, wherein the first web page includes a graphical representation of a set of diagnostic data.

Regarding claim 59 Spaur disclose the method of claim 52, wherein the web site further comprises a database component.

Regarding claim 60 Spaur disclose the method of claim 52, wherein the web site further comprises a login web page programmed to accept user name and password inputs of a user.

Regarding claim 61 Spaur disclose the method of claim 60, wherein the web site is configured to determine whether the user is associated with the first or second web interface.

Regarding claim 62 Spaur disclose the method of claim 52, wherein the multiple vehicles are each associated with a single user.

Regarding claim 63 Spaur disclose the method of claim 52, wherein the web site is configured to be displayed on a hand-held device.

Regarding claim 64 Spaur disclose the method of claim 63, wherein the hand-held device comprises a cellular telephone, computer, or personal digital assistant (PDA).

Regarding claim 65 Spaur disclose the method of claim 52, further comprising sending an electronic communication including at least a portion of the operational characteristics of the single vehicle or multiple vehicles.



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Regarding claim 66 Spaur disclose the method of claim 52, further comprising analyzing a location of the single vehicle and displaying the location on at least one map.

Regarding claim 67 Spaur disclose the method of claim 52, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 68 Spaur disclose the method of claim 52, wherein the set of vehicles includes a fleet of vehicles.

Regarding claim 69 Spaur disclose the method of monitoring a set of vehicles, comprising:

(a) wirelessly transmitting, by a host computer, a schema,

wherein the schema identities a subset of a set of operational characteristics that are monitorable by an on-board diagnostic computer of a target vehicle among a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema, and

(b) wirelessly receiving collected vehicle data of the target vehicle, the collected data including the subset of monitorable operational characteristics identified in the transmitted schema.

Regarding claim 70 Spaur disclose the method of claim 69, wherein the schema is associated with a predetermined group of vehicles.

Regarding claim 71 Spaur disclose the method of claim 70, wherein the predetermined group of vehicles having at least one attribute in common.

Regarding claim 72 Spaur disclose the method of claim 69, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 73 Spaur (col. 2-12) disclose programmed apparatus, programmed to execute a method of monitoring a set of operational characteristics of a vehicle, the method comprising:

(a) wirelessly receiving, by a wireless appliance in a vehicle, a schema identifying a subset of a set of operational characteristics that are monitored by an on-board diagnostic computer of the vehicle;

(b) processing the received schema;

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(c) collecting from the vehicle's on-board diagnostic computer data for the subset of operational characteristics identified in the received schema; and

(d) wirelessly transmitting the collected data,

wherein the schema comprises a field that describes a time or frequency for the data collection.

Regarding claim 74 Spaur disclose programmed apparatus of claim 73, wherein the schema identifies an address of an operational characteristic for which data is to be collected from the vehicle's on-board diagnostic computer.

Regarding claim 75 Spaur disclose programmed apparatus of claim 73, wherein the method further comprises wirelessly transmitting data indicative of the vehicle's location.

Regarding claim 76 Spaur disclose programmed apparatus of claim 73, wherein the vehicle is selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 77 Spaur (col. 2-12) disclose programmed apparatus, programmed to execute a method of monitoring a set of vehicles, the method comprising:

(a) wirelessly transmitting a schema identifying a subset of a set of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) to be monitored by an on-board diagnostic computer (122, 124, fig. 2) located in each of a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema,

(b) wirelessly receiving, by a host computer, operational characteristics of a set vehicles;

(c) displaying, on a first web interface of a web site, operational characteristics of a single vehicle selected from among said set of vehicles, and

(d) displaying, on a second web interface of the web site, operational characteristics of multiple vehicles among said set of vehicles, wherein said multiple vehicles are associated with a single entity; and

Regarding claim 79 Spaur disclose the programmed apparatus of claim 77, wherein the web site further comprises a login web page programmed to accept user name and password inputs of a user.

Regarding claim 80 Spaur disclose the programmed apparatus of claim 77, wherein the method further comprises sending an electronic communication

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including at least a portion of the operational characteristics of the single vehicle or multiple vehicles.

Regarding claim 81 Spaur disclose the programmed apparatus of claim 80, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 82 Spaur (col. 2-12) disclose a programmed apparatus, programmed to execute a method of monitoring a set of vehicles, the method comprising:

(a) wirelessly transmitting, by a host computer, a schema, wherein the schema identifies a subset of a set of operational characteristics that are monitorable by an on-board diagnostic computer of a target vehicle among a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema; and

(b) wirelessly receiving collected vehicle data of the target vehicle, the collected data including the subset of monitorable operational characteristics identified in the transmitted schema.

Regarding claim 83 Spaur disclose the programmed apparatus of claim 82, wherein the schema is associated with a predetermined group of vehicles.

Regarding claim 84 Spaur disclose the programmed apparatus of claim 82, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 85 Spaur (col. 2-12) disclose a machine-readable medium encoded with a plurality of processor-executable instructions for:

(a) wirelessly receiving, by a wireless appliance in a vehicle, a schema identifying a subset of a set of operational characteristics that are monitored by an on-board diagnostic computer of the vehicle;

(b) processing the received schema;

(c) collecting from the vehicle's on-board diagnostic computer data for the subset of operational characteristics identified in the received schema, and

(d) wirelessly transmitting the collected data,

wherein the schema comprises a field that describes a time or frequency for the data collection.

Regarding claim 86 Spaur disclose the machine-readable medium of claim 85, wherein the vehicle is selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 87 Spaur (col. 2-12) disclose a machine-readable medium encoded with a plurality of processor-executable instructions for:

(a) wirelessly transmitting a schema identifying a subset of a set of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) to be monitored by an on-board diagnostic computer (122, 124, fig. 2) located in each of a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema;

(b) wirelessly receiving, by a host computer, operational characteristics of a set of vehicles,

(c) displaying, on a first web interface of a web site, operational characteristics of a single vehicle selected from among said set of vehicles; and

(d) displaying, on a second web interface of the web site, operational characteristics of multiple vehicles among said set of vehicles, wherein said multiple vehicles are associated with a single entity; and

Regarding claim 88 Spaur disclose the machine-readable medium of claim 87, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

Regarding claim 89, Spaur (col. 2-12) disclose a machine-readable medium encoded with a plurality of processor-executable instructions for:

wirelessly transmitting, by a host computer, a schema, wherein the schema identifies a subset of a set of operational characteristics that are monitorable by an on-board diagnostic computer of a target vehicle among a set of vehicles,

wherein the schema comprises a field that describes a time or frequency for querying the vehicle's on-board diagnostic computer for the subset of operational characteristics (col. 2, lines 53+; col. 3, lines 49+) identified in the schema; and

(b) wirelessly receiving collected vehicle data of the target vehicle, the collected data including the subset of monitorable operational characteristics identified in the transmitted schema.



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Regarding claim 90 Spaur disclose machine-readable medium of claim 89, wherein the set of vehicles includes at least one vehicle selected from a group comprising an automobile, truck, wheeled commercial equipment, heavy truck, power sport vehicle, collision repair vehicle, marine vehicle, and recreational vehicle.

In claims 1-15, 17-52, 54-90, the statements of intended use or field of use, “receiving a schema”, “time or frequency for querying”, “monitored operational characteristics” etc clauses are essentially method limitations or statements of intended or desired use. Thus, these claims as well as other statements of intended use do not serve to patentably distinguish the claimed structure over that of the reference. See *In re Pearson*, 181 USPQ 641; *In re Yanush*, 177 USPQ 705; *In re Finsterwalder*, 168 USPQ 530; *In re Casey*, 512 USPQ 235; *In re Otto*, 136 USPQ 458; *Ex parte Masham*, 2 USPQ 2nd 1647.

See MPEP § 2114 which states:

A claim containing a “recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from the prior art apparatus” if the prior art apparatus teaches all the structural limitations of the claim. *Ex parte Masham*, 2 USPQ 2nd 1647

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than functions. *In re Danly*, 120 USPQ 528, 531.

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Apparatus claims cover what a device is not what a device does.  
Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528.

As set forth in MPEP § 2115, a recitation in a claim to the material or article worked upon does not serve to limit an apparatus claim.

### ***Response to Arguments***

6. Applicant's arguments filed 3/14/06 have been fully considered but they are not persuasive.

The applicant argues that the prior art does not disclose the limitations of the invention related to a schema. The examiner respectfully disagrees. The prior art disclose a wireless communication component configured to wirelessly transmit/receive a schema (IP address, col. 3, lines 3+; col. 4, lines 15-23; col. 11, lines 27-39, lines 58-67) identifying a subset of the set of operational characteristics that are monitored or are to be monitored by the on-board diagnostic computer (122, 124, col. 10, lines 37+).

The prior art disclose a feature that perform the following aspects of the invention. The prior art disclose a feature that:

- identifies diagnostic data to be collected;
- features an address that describes a location of a diagnostic datum in a computer memory;

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--- includes a field that regulates time and frequency for querying an onboard computer;

--- includes a field that regulates time and frequency for collecting data from an onboard computer;

--- identifies a subset of the set of operational characteristics that are monitored by an on-board computer. Therefore, the prior art anticipates a “schema” in the context of the claimed invention.

It is therefore believed that the rejection is proper and stands.

### ***Communication***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronnie Mancho whose telephone number is 571-272-6984. The examiner can normally be reached on Mon-Thurs: 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronnie Mancho  
Examiner  
Art Unit 3663

3/18/06

  
JACK KEITH  
SUPERVISORY PATENT EXAMINER